

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: Brian Kassel <bkassel@dancris.com>
Subject: [18583] "Lost Dutchman Mine" QRPTTF (Longish)
Message-ID: <199704292004.NAA24640@dancris.com>

At our selected site: The "Lost Dutchman Mine" we ScQRPions had, IMHO,
the best QRP TTF to date.

(edited)

Brian W5VBO

* Brian D. Kassel W5VBO - QRP NERD 10 - ScQRPion # 0 *
* QRP-L #404 - ARCI #3623 *

<<<END EXTRACTED AND EDITED TEXT

I always thought the Lost Dutchman mine was in Eureka UT. The Duthcman
was one of my ancestors, according to my Grandmother, and a newspaper
article she had.

Douglas L. Datwyler
datwyler@aros.net

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [18748] (fwd) UNBUILT HEATHKITS!
Message-ID: <336bdc96.142176342@smtp.usit.net>

=46rom USENET ... thought you'd find this interesting!

On Wed, 30 Apr 1997 20:49:03 -0700, in rec.radio.amateur.swap Joe
Eide <jeide@eau.net> wrote:

WOW!

Look what we found in an estate! 17 unbuilt Heathkits and 3=20
unbuilt Eico kits!! We are looking for best offer as a lot on the=20
Heathkits or Eicos.

PS-1144 POWER SUPPLY
HW-12A 80M 200W SSB RIG

HW-9 80/40/20/15 QRP
SB-634 STATION CONSOLE
HD-8999 KEYER
HD-3030 RTTY TERM
IM-4100 FREQ CNTR
IM-5228 BENCH VTVM
ET-3200A DIG DESIGN TRAINER
IM-5217 VOM
IT-28 CAP CHECKER
IT-121 FET/XSISTOR CHECKER
IT-7400 DIG IC TESTOR
IM-38 AC VTVM
IG-1271 1HZ~1MHZ FUNCTION GEN
IG-42 PREC RF GEN
SK-101 REG 3A SUPPLY

EICO

717K ELECTRONIC KEYER
435 SCOPE
1171 DECADE RES BOX

PLEASE CALL JOHN (KF9XH) AT 715-835-5752 FOR INFO OR TO PLACE=20
YOUR BID! THANK YOU

PLEASE DO NOT E-MAIL ME.

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: Pete Rossi <wa3nna@resuba.com>
Subject: [18707] ** 80 METER QRP BEACON ** THIS WEEKEND **
Message-ID: <199705010358.XAA04773@resuba.com>

As promised... Get ready for another one...

This will be a super challenge for those of you who really dig digging
for those microwatt signals. This time instead of the 100 uW power level,
we will try for 50 uW. Should be interesting if the band is not too
noisy.

YOUR CALL & NAME
YOUR LOCATION
CODEWORD & POWER LEVEL
DATE/TIME
SIGNAL REPORT

Canadian and other DX stations, please send mailing address + long/lat coordinates of your location.

Certificates acknowledging the lowest power level at which you correctly copy the codeword will be available. Jerry, W4UK, who produced the certificates for past beacons has offered to produce them again for this one.

Details on how to request a certificate will be posted with the summary report which will be posted a few days after the beacon session, once all reports have been received. Please do not post the codewords.

Please spread the word about this beacon through whatever means available.

Good luck & 73,

Pete Rossi - WA3NNA QRP-L #459
wa3nna@pete.resuba.com
beacon@pete.resuba.com

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [18726] 20 meter QRP for sale
Message-ID: <01IICKA1R2WI8WYN7T@tntech.edu>

Built and tested-

NW8020- 20 meter

this one was built from Dan's kit, with optional audia filter and RIT. it is in nuce unpainted aluminum case that is 7" w x 5.5" deep x 2.5" high. it has a pretty good size built in speaker and has on/off switch built into audio control
puts out a solid 5 watts and works real well on DX.
The audio filter does a great job on knocking out atmospheric noise and really narrows down width.

NW80/20 5 WATT CW TRANSCEIVER KIT:
THIS CW TRANSCEIVER KIT WAS DESIGNED BY ROY GREGSON W6EMT.
THIS TRANSCEIVER KIT HAS A 4 POLE CRYSTAL FILTER,
QSK, 5 WATTS "PLUS" OUTPUT, RIT IS INCLUDED
ALSO INCLUDED IN THE KIT WE OFFER IS THE OPTIONAL ACTIVE CRYSTAL
FILTER KIT. AIR VARIABLE WITH BUILT IN 8:1 REDUCTION

\$75 shipped us
(*this is less than the kit+case cost)
72
Jeff, AC4HF

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: Joseph Siong 9M8ST/V85ST <cookes@pc.jaring.my>
Subject: [18710] 2M DF
Message-ID: <199705010532.NAA03614@relay5.jaring.my>

Hi Qrp friends,

Does any one have any experience in 2M DF activities would like to hear
views and type of equipments used.

Have been experienting a some qrm caused by "pirate stations".

Joseph

```
*****
> *      SIONG 9M8ST/V85ST          /-/-/ ~  /|\          *
> *      G-QRP 7986                 |      /_|\_ \         *
> *  e-mail cookes@pc.jaring.my     |      //^^\  \         *
> *  snail mail address :           ----/^ \_/_| %@|_ _ \       *
> *      171D Cookes Drive                                     *
> *      93150 Kuching Sarawak                                     *
> *      MALAYSIA                                                  *
> *                                                                  *
> *      # For more information about SARAWAK check in #         *
> *                                                                  *
> *      http://www.sarawak.gov.my/stb                             *
> *                                                                  *
> *****
```

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: K4AHK@ix.netcom.com

Subject: [18715] 9V Battery Life
Message-ID: <3368728D.632E@ix.netcom.com>

Does anyone have a chart for the amp/hour ratings of alkaline batteries? How long will a 9-volt alkaline battery last at 20ma drain?

Bill - K4AHK

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: Richard Fisher <ki6sn@pe.net>
Subject: [18734] ARS: A Happy Anniversary
Message-ID: <Pine.GS0.3.96.970501083401.27427A-100000@magnolia>

One year ago today, on this very spot, we announced formation of an organization that combines amateur radio with a love for the outdoors -- the Adventure Radio Society.

We nervously shouted into the woods, wondering if anyone would call back.

QRP-L's response May 1, 1996 was immediate, enthusiastic and beyond our wildest expectations. In the past 12 months ARS membership has grown to 250, representing 41 U.S. states, Canada, Japan, Australia, England, and across Europe.

On this first anniversary of the Adventure Radio Society we'd like to thank the wonderful community of QRP-L for helping make this organization a success.

What have you done?

QRP-L's subscribers and administrators have enthusiastically supported ARS' monthly "Spartan Sprints," where operators wrestle with the challenge of putting out solid signals using the most lightweight gear possible.

You've helped pour the foundation for ARS' upcoming "Flight of the Bumblebees" July 27, sending 50 members of this list into the wild using human-powered means to reach remarkable field locations to operate in a four-hour sprint. Home-based operators -- ARS members and non-members alike -- will be stalking the bees.

Late last year ARS sponsored the Trail Friendly Radio Challenge, asking society members and all QRP-L subscribers to focus on the need for radio packaging that meets the requirements for portability, ruggedness, practicality and ease of operation that trail conditions demand. You came forward with some truly innovative designs, setting the table for field-grade gear of the future.

You've given us encouragement and suggestions for making ARS' website (www.natworld.com/ars) more interesting and useful. You've embraced our automated system for reporting ARS-sponsored contest results through the Internet, and spurred ideas for some very exciting website developments we'll be announcing in the coming months.

Many of you are participating in ARS' WAS/PQ program (Worked All States from portable sites reached by human power), and ARS Piggybacks, where operators incorporate the spirit of ARS while operating in mainstream contests like ARRL's November Sweepstakes or CQ's Worldwide DX competition.

On behalf of ARS colleagues Russ Carpenter, AA7QU; Wayne Burdick, N6KR; and Lorraine Aubert, AC6XK; sincere thanks to the QRP-L community for contributing so much to the success of the Adventure Radio Society. It is indeed a Happy Anniversary.

Vy 72,

Richard Fisher, KI6SN
ARS No. 3

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Ed Manuel" <n5em-qrp@msn.com>
Subject: [18731] Batteries - PP3?
Message-ID: <UPMAIL15.199705011436080015@msn.com>

Gang,

tc> PP3 0.55 Ah at 470 ohm for 36 hrs to 4.8V
tc> And since the cost/A-hour ratio for D cells is so good it makes sense to
tc> design portable equipment using a SMPSU and a couple of D cells.

What is a PP3 battery? 9vdc?

Ed, N5EM

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: Charles Cashion <ccashion@spdmail.spd.dsccc.com>
Subject: [18724] battery life
Message-ID: <199705011319.IAA05581@vob005.spd.dsccc.com>

Guys,

>From time to time, the battery-life-question rises.

In the past, Tim Craig and Scott Rosenfeld have answered the question a bit more fully:

tc> From: tim@tecno.demon.co.uk (Tim Craig) 08jun95...

tc>

tc> AAA 1.1 Ah at 10 ohm for 8.5 hrs to 0.8V

tc> AA 2.6 Ah at 10 ohm for 20.2 hrs to 0.8V

tc> C 6.5 Ah at 10 ohm for 50.0 hrs to 0.8V

tc> D 15.6 Ah at 10 ohm for 120.0 hrs to 0.8V

tc> PP3 0.55 Ah at 470 ohm for 36 hrs to 4.8V

tc> And since the cost/A-hour ratio for D cells is so good it makes sense to

tc> design portable equipment using a SMPSU and a couple of D cells.

sr> From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu> 09oct96...

sr>

sr>	Ray-O-Vac	Eveready	Duracell	NiCds	
sr> Size	Alkaline	Max	Renewal	Energizer (GOOD ones)	
sr> AAA	750	500	1100	1120	270
sr> AA	2000	1000	2450	2450	600
sr> C	5000	3100	7200	7100	2200
sr> D	10000	5000	8900	14250	4400

sr>

sr> What are the advantages? My wife always told me she thought
sr> the D-cell Ray-O-Vac batteries didn't last as long as the
sr> Duracells. Guess she was right, eh? On top of that, note the
sr> capacity difference between NiCd batteries (average batteries,
sr> not high-cap, not typical junk, either).

Somebody mentioned cost. If cost is a factor, then cost-per-hour might be the most honest way to view this.

72s,

Charles Cashion, W5ISZ, Plano (Dallas), TX

```
+ - - - - - +
| Did you hear that the Eveready bunny was arrested? |
|           He was charged with battery.              |
|                                                       |
| He was released on bond, and interviewed by the press, |
| he was quoted as saying,                             |
|           "Anybody can have a bad hare day."         |
+ - - - - - +
ARRL NorTex#116 NorCal#1320 QRP-L#76
```


From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Steven Karty" <kartys@ncr.disa.mil>
Subject: [18749] Coax as a balanced feeder???
Message-ID: <9704018625.AA862521202@ncr.disa.mil>

Using two runs of coaxial cable as a balanced feeder will result in an additional 3-dB loss.

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Marshall Emm" <mgemm@mtechnologies.com>
Subject: [18746] CQC Swap List
Message-ID: <199705011748.LAA02070@lynx.csn.net>

The CQC Swap List has been updated. Point your browser to <http://www.mtechnologies.com/mthome> and look for the CQC logo.

If you would prefer to have the list e-mailed to you each time it is updated, send your request to CQCSWAP@mtechnologies.com and we'll put you on the list.

73

Marshall Emm
AA0XI/VK5FN
aa0xi@mtechnologies.com
<http://www.mtechnologies.com/mthome>
<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: n0acs@juno.com (John R. Morris)
Subject: [18712] CRYSTAL GROUP BUY
Message-ID: <19970501.000257.6839.18.N0ACS@juno.com>

Crystal orders shipped and scheduled to ship:

The following persons shipments went in the mail today:

Daniel Wright
Robert Nickles W9RAN
George Coffey WD0ALN
Roberta J. Barmore KB9GKX
John Heck

The following will be shipped via USPS 05\01\97:
John Burnley

Karl Heimbach W5QJ
John Moriarity K6QQ
Ronald L. Todd
Scott Brigham

Hope this helps some of you wondering "WHEN will mine ship?"

73 Got to get back to work
John@PHOENIX CRYSTALS
]

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \((608\) 267-3135)
Subject: [18716] Dan's Cent. 80m(75m) SSB rig;
Message-ID: <009B3981EB8F691F.6A6F@dnr.state.wi.us>

Received the suggestion from Arjen Raateland OH2ZAZ(attached). Based on this I have changed the 0.22 uF that feeds the mike sig. to the balanced mixer to a 0.1 uF: I had already put in 0.1's most everywhere else. The 0.1 uF is the recommended value but 0.22 (listed sub.) came w/ the kit. Haven't got a signal report on it but this is my best guess. (0.1 uF = 100 nF).

If not this then the problem may be a difference between the two 5.185 Mhz IF oscillators that are used in the receive and transmit sections. As of now, the component values of both oscillators circuits are listed as identical (received a comment suggesting that this may be the problem). The VFO is shared between the two sections. A change in the VFO between RX and TX could also have the same effect but I haven't observed this on my freq. counter.

Also, received a query about receive / transmit current drain from Jim, W7LS: On receive, the current drain ranges from about 30 ma (no volume) to about 60 ma on fairly high volume. I don't think I remembered to measure the quiescent transmit current gain but at maximum output (about 2.75 W w/ a condenser mike), the max. current draw was about 750 ma. My recollection is that when not speaking into the mike, the current draw on transmit was around 100 ma or less (I will try to remeasure and report back the quiescent transmit current).

Also, will be looking for feed back from other builders of the kit regarding their power output. The output was billed as being 5W to 8W but I am getting 2.75 W max (not a problem, this is a QRP group after all). But wondering if it is the true capability of the circuit or if there is a tweak available. I tried increasing the gate DC voltage up to 2.9 V but the final appeared to get a lot warmer and there wasn't much of an output increase (maybe up to 3W).

Note, the manual recommends power measurement by measuring the peak voltages (on an O'scope) and calculating using E^2/R . Based on this, I may be putting out 8W but using the meters in my shack (in peak mode), the reading is 2.75 max.

My max. output increased from about 2.5W to 2.75W by using a condenser mike. I assembled this by using an old RS power mike housing and building it from components. Instead of a battery, I feed the transmit keyed 12V to the mike and use a 78L05 (and 4.7uF electrolytic) to feed 5V to the condenser mike.

>From: SMTP%"Arjen.Raateland@vyh.fi" 30-APR-1997 09:32:05.13

>> Hopefully my "muddy" signal is from insufficient mike drive but will be
>> investigating this further.

>Don,

>It's not necessarily the mike signal level. I own a White Mountain 75
>rig from SWL and I got reports of a muddy modulation quality, too much
>low tones.

>As I had already modified the RX part quite a bit, I didn't think much
>of modifying the modulator circuit as well.

>Anyway, the problem was that the capacitor coupling the signal to the
>diode ring modulator was way too large (22 microF instead of 100 nF or
>thereabouts). So it passed all low tones. I calculated a new value for
>an approximate cut-off of 400 Hz, replaced the cap and made another
>minor change at the input of the microphone amplifier. After this I got
>a much better modulation report from the same station in Holland that I
>had contacted before.

>Actually he suggested that I use another mike. I didn't think that was
>the right way to do it, really. Perhaps you should look at the modulator
>circuit, too.

>73 es gl, OH2ZAZ

>--

>Arjen Raateland

>Finnish Environment Institute

>SAS Support

>phone +358 9 4030 0457

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997

From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [18752] Dan's Group buy?
Message-ID: <01IICVG2QX0Y8WY3ED@tntech.edu>

anyone got extra time and energy (and what do others think of this kit?)

>#4. Clubs, Group Buys, Individuals, purchase 5 or more Maxi-Kits
>for \$59.95 each plus \$4.00 shipping and handling, an unheard of
>savings of \$10.00 Per Kit!

I don't have the time right now.. how about you Scott?

72
Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: PDouglas12@aol.com
Subject: [18703] Dayton 150 badges and rising
Message-ID: <970430221101_-1267023487@emout08.mail.aol.com>

Gang,

Here is the latest badge list. If you still need a Dayton badge see the badge FAQ posted simultaneously herewith. Please check your entry and email me if there is an error.

ADAMS	CHUCK	K5FO	FDIM SPEAKER
ALBERT	TED	KF8EE	
ANTCZAK	ERNIE	NC8N	
ARNETT	STAN	AC8W	
BACHMANN	RICHARD	N3SLR	
BEEDLOW	PETER	NN9K	
BENSON	DAVE	NN1G	FDIM SPEAKER SMALL WONDER LABS
BERTUZZO	SERGE	VA3SB	
BLANCHARD	DENNIS	K1YPP	JADE PRODUCTS, INC.
BLANCHARD	JANE	KA1FUN	JADE PRODUCTS, INC
BORNSTEIN	STEVE	K8IDN	
BOWMAN	BOB	AA5VS	
BRAUN	SCOTT	KB2GWF	EMBEDDED RESEARCH
BROWN	DAVE	K8AX	

BURDICK WAYNE N6KR WILDERNESS RADIO

BUTLER RALPH K6ZAN

BUTLER RAY WA4KEJ

CARR MIKE WA1QAA

CARTWRIGHT CHRIS N3XRV

CARTWRIGHT DON N2NNF EMBEDDED RESEARCH

CARVER BILL W7AAZ FDIM SPEAKER

CATES JIM WA6GER NORCAL 38 SPECIAL

CAVCEY KEN W0YOR

COHEN STEVE N30IE

COPELAND DAN KF0OV

CORBIN LOWELL W8IQB

CORBIN ROBIN NI9R

CUMMING JOHN VE3JC

CZUHAJEWSKI MIKE WA8MCQ

DIANA GARY N2JGU EMBEDDED RESEARCH

DOBBS REV GEORGE G3RJV FDIM SPEAKER

DOLSON BILL K8DDV

DOLSON JIM WB8ZBD

DOUGLAS PRESTON WJ2V FDIM VENDOR CHAIR FDIM SPEAKER

DOYLE DON AC5II

DOYLE ROBERT

DOYLE RON N8VAR

DURBIN KEN K8CQO

DYER BOB KD6VIO WILDERNESS RADIO

EILERS MICHAEL AC4XS

EVANS JOHN N3Q00

EVANS KEN W4DU

EVANS PATTY N3TOK

EVERHART JOE N2CX FDIM SPEAKER

FIELDS TOM WB9VTY

FINCH BOB W9YA

FIRLIK DON K8AQZ

FIRTH GRAHAM G3MFJ

FISHPOOL TONY G4WIF

FITTON JIM W1FMR

FOLLETT BOB AB7ST FDIM REGISTRATION CHAIR

FOOTE JOHN KR4GL

FRISZ TOM N9DD

GAFFNEY BERNARD N8PVZ

GINGELL DANNY K3TKS

GOBRICK BOB N0EB FDIM SPEAKER FDIM PUBLICITY CHAIR

GOEMANS PAUL WA9PWP
GRAHAM KEN K5ID
GREER DEBBIE
GREER JEFFREY WD4ET
HARTLEY CHARLES KM3V
HENDRICKS DOUG KI6DS NORCAL 38 SPECIAL

HENSHAW JERRY KR5L
HENSHAW JERRY KR5L
HERON GEORGE N2APB FDIM SPEAKER

HIDEG STEVE N8HSC INTERNET PHOTOGRAPHER

HIMES MARTY WB8FNH
HINTZ GUS W2ZHA
HOLLER DAVID N1RGN
JIVOIN GREGORY WD8JTN
JOHNEY GARY N3BYN
JOHNSON HAROLD W4ZCB
JOHNSTON RAY WA2YGY
JONES ALLEN W9DZ
JUCH FRED N5JXO
KARTY STEVEN N5SK
KELLNER RICH W5RXP
KELLOGG BOB AE4IC
KELLOGG ELLEN A1XYL
KELSEY BILL N8ET KANGA US
KOHL HANK K8DD
KORTGE JIM K8IQY
KORTGE KATHY KB8IMP
LEWALLEN ROY W7EL
LIFLAND TOM W2RFU
LUDINSKY CHUCK K1CL
LYNCH MARTIN KA1LXG
MANUEL ED N5EM
MASSENA FRED KG8OK
MATHESON HUGH K0QD
MEIER PETE WK8S FDIM/ARCI BANQUET CHAIR

MIDKIFF MONTE N7TAU
MIKUCKIS JOE K3CHP
MITCHELL BRAD WB8YGG
MITCHELL BRAD WB8YGG EMBEDDED RESEARCH

MITCHELL MITCH W40A
MOIZEAU CHARLES W2SH

MORIARITY JOHN K6QQ
MORIARITY JOHN K6QQ
MOYLE AL N3KFL
MUSCOLINO BRUCE W6TOY/3 FDIM SPEAKERS CHAIR FDIM SPEAKER

OWEN JAMES K4CGY
PARFITT DALE W40P
PASCOE DICK G0BPS KANGA PRODUCTS

PASSIONE VINCE WA2ECP
PERRY DIKKIE XYL
PERRY MIKE PA3ASC FDIM SPEAKER
POLING PAUL N8CKG
POWERS DAVID KB8RVS
PUCKETT DAN WD8AAU
QUICK PAULETTE WB9VHF
QUICK PAULETTE WB9VHF
REA AL W8LRM
REED JACK WA7LNU
REED WAYNE K9NE
REES CHRIS G3TUX QRP COMPONENT CO

REID GLEN K5HGB
ROBERTS KEN VE3BGW
ROSENFELD SCOTT NF3I
SCHILL BOB N9ZZ
SCOTT JAMES W9KV
SHEARER SAM WB5ZJN
SHILHANEK TERENCE W0PFR
SIMON ED K04CO
SJOLIN DAVE N0IT
SKALSKI JIM N2GO
SMITH WAYNE K8FF
SPECHT PHILIP K4PQC
STAFFORD JIM W4QO
STARK RON KU7Y QRP QUARTERLY EDITOR

STEWART DOUG N2BEG EMBEDDED RESEARCH

STEYAERT ROGER K7RXV
STICHWEH DAVID N8GKQ
SWITZER BUCK N8CQA
SZAKONYI DICK KA3ZOW S & S ENGINEERING

SZAKONYI KATHY N3SAD S & S ENGINEERING

TANKERSLEY JOHN WD9EFN
TANTON ED N4XY

TERRIBLE DENNIS WR4I
 TODD RON K4WZ
 TODD RON K4WZ
 TOUTH LEN W8VQ
 TRACY DAN KC9RH
 WHITEHEAD ELLIS AA8SR
 WIDMAYER GARY N8AYY
 WINDISH WALD KB2JE
 WINKLER DAN N7IVR
 WOHLSCHLAG DICK WA9FLX
 WOHLSCHLAG MARGE XYL
 WRIGHT VERN W6MMA SLV COILS & SD-20 POLES

 YOUNCE JIM K4ZM
 YOUNG NILS WB8IJN
 YOUNG PAUL KC2AHB
 YOUNG TERRY K4KJP

72,

Preston WJ2V

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
 From: PDouglas12@aol.com
 Subject: [18701] DAYTON Badge FAQ NB: gate will close 5/9/97
 Message-ID: <970430221111_-433741190@emout12.mail.aol.com>

Ladies and Gents:

THAT'S RIGHT FOLKS, I AM CLOSING THE GATE AS OF FRIDAY NEXT WEEK. IF YOU
 AREN'T IN MY DATABASE BY MAY 9, YOU WON'T GET A BADGE. I HAVE MORE THE 150
 TO DO AT THIS POINT, AND I DON'T WANT TO LOSE MY WHOLE WEEKEND BEFORE DAYTON
 ASSEMBLING BADGES. I HAVE TO PACK YOU KNOW!

As in past years, I will be making convention badges for the online QRP bunch
 for the 1997 Dayton Hamvention (c). Please keep in mind that these are for
 delivery at Dayton only, not for mailing, and not for "outsiders", meaning
 that I ask that you request your own badge, but please don't ask me to make
 one for your friend who is not online. As it is, I will be doing about
 150-200 badges this year. Obvious exceptions: Spouses, and immediate
 family members. Do request a badge for family members who will be with you.

The badges will have QRP ARCI and FDIM in the heading (All-in-one this
 year.) Vendors will have a line with the name of their company, and FDIM
 Speakers will be identified as well (on a separate line shoe-horned in).

After struggling for two days, I haven't been able to fit the QRP-L logo--so
 I reluctantly concluded it had to go so I could fit all the other data.

HOW TO GET A BADGE: Email me at pdouglas12@aol.com, with your name and call. That's it. Badges are free. GANG PLEASE DON'T SEND ME BACK A COPY OF THIS FAQ. I KNOW WHAT IT SAYS. JUST THE REPLY PLEASE. IN OTHER WORDS, PLEASE LEARN TO USE YOUR REPLY BUTTON PROPERLY.

FDIM ATTENDEES, AND FDIM SPEAKERS, AND FDIM VENDORS DO NOT NEED TO REQUEST A BADGE. I ALREADY HAVE YOUR INFO. NO NEED TO SEND A REQUEST.

I will post a "printout" of my badge database thus far, so you can check your info for accuracy--there are always a few errors in the early rounds as these have to be hand entered the first time they go into the database. My program puts new entries on the bottom of the otherwise alphabetical list, so if you have just requested a badge, check there if your name isn't in the normal place in the list.

WHERE CAN I GET MY BADGE AT DAYTON? First, they will be available at the Thursday FDIM seminar at check-in. Later on, they will probably be at the QRP booths in the Hamvention convention hall. In past years the G-QRP gang has graciously allowed pick-up at their booth, and again this year, the badges will be there during convention hours. In the eves, we will try to bring back the leftovers to the Days Inn South for pick up at the banquet and evening programs.

That's it. I have posted the latest version of the database. Get psyched, it is coming.
Still sitting on your tail thinking, "gee maybe I will go someday"? Move it.
This is the year.

72,

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [18721] DAYTON transportation from Maryland
Message-ID: <Pine.3.89.9705010730.B19948-01000000@w3eax.umd.edu>

N3XRV and I are leaving THURSDAY night from Maryland. We're gonna drive through the night to show up early for the fest Friday.

Leaving Dayton Sunday afternoon.

Vehicle: Chevy Suburban, with three extra seats and LOTS of cargo room.

Need a ride? Want a ride? PLEASE let me know ASAP.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: PDouglas12@aol.com
Subject: [18700] Dayton Vendors list
Message-ID: <970430221104_-1300056191@emout10.mail.aol.com>

Gang,

Here is the list of vendors who will be attending the Vendor's night at FDIM.
That's Friday night at about 9:30 (following the big banquet). We have
thirteen of the "core" vendors in our branch of the hobby. All are welcome,
whether you can make the FDIM Thursday program or not, of course:

EMBEDDED RESEARCH BRAD WB8YGG & GARY N2JGU ATOMIC KEYSER & TICK (TINY CMOS
KEYER) PO BOX 92492 ROCHESTER, NY 14692
EMTECH BOB KELLOGG AE4IC NW TRANSCEIVERS AND ANTENNA HARDWARE
3641A PREBLE
ST BREMERTON, WA 98312
JADE PRODUCTS INC. DENNIS (K1YPP) AND JANE (KA1FUN) BLANCHARD
BATTERY
CONTROLLERS, CURTIS KEYSERS, COMPONENTS BOX 368 E. HANPSTEAD, NH 03826-0368
JOE EVERHART N2CX NJQRP RAINBOW TUNERS, N2CX GUSHER-II
ANTENNAS JEVERHART@CAYMAN.VF.MMC.COM N2CX@VOICENET.COM
KANGA PRODUCTS (UK) DICK PASCOE G0BPS KITS, SIMPLE TX, RX,
TRANSCEIVERS SEAVIEW HOUSE, CRETE RD. EAST FOLKESTONE, KENT. CT18 7EG.UK
KANGA US BILL KELSEY KITS & COMPONENTS FROM HANDS, KK7B AND MORE
3521
SPRING LAKE DRIVE FINDLAY, OH 45840
NORCAL DOUG HENDRICKS (KI6DS) & JIM CATES WA6GER 38S AND 48S XCVR CLUB
KITS 3241 EASTWOOD RD. SACRAMENTO, CA 95821
QRP COMPONENT CO. CHRIS REES G3TUX KITS, KEYS AND QRP
G3TUX@COMPUSERVE.COM
S & S ENGINEERING DICK (KA3ZOW) AND KATHY (N3SAD) SZAKONYI
TRANSCEIVERS,
KITS, ARC4 & TAC1 14102 BROWN ROAD SMITHSBURG, MD 21783
SMALL WONDER LABS DAVE BENSON NN1G SW, GM, AND WHITE MOUNTAIN XCVR KITS
80 E

ROBBINS AVE NEWINGTON, CT 06111
WILDERNESS RADIO WAYNE BURDICK N6KR & BOB DYER KD6VIO
SIERRA, 40A, SST
XCVRS, & KC1 & KC2 READOUTS PO BOX 734 LOS ALTOS, CA 94023-0734
W6MMA ANTENNAS VERN WRIGHT 40-10 SLV COILS & SD-20 FISHING POLES

INTERNET PHOTOGRAPHY STEVE HIDEG

I do apologize for my inability to format this info better, but that is how
it comes out of my placemat database. See you there gang.

72,

Preston WJ2V

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: dzn1@juno.com (Howard D Rubin)
Subject: [18255] Digital Receivers
Message-ID: <19970425.171434.10582.0.dzn1@juno.com>

Larry,

I wouldn't suggest that I could be the first one, but I sure would like
to join
the message stream with those interested in discussing the topic!

Regards,

Howard Rubin
Editor, X-Mitter
Penn Wireless Association
www.pennwireless.com

On Fri, 25 Apr 1997 14:52:55 -0600 Larry East <w1hue@amsat.org> writes:
>There is a very interesting overview of digital receivers starting on
>page
>32 of the April 1997 issue of RF Design. There is also a somewhat more
>technical article on the use of DSP technology in multi-channel
>digital
>receivers on page 58 of the same issue.
>
>OK, gang: Who will be the first to come up with a completely digital
>HF

```

>transceiver design that can be implemented by the "average"
>homebrewer?
>
>Happy hunting in the QRPTTF ...
>
>
>

```

END EXTRACTED (and edited slightly) TEXT

I, too am interested in this thread, and any off line discussion.

Thanks,

Douglas L. Datwyler
 datwyler@aros.net

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
 From: "Len W. Touth" <len@infinet.com>
 Subject: [18756] Disk Crash - Lost Messages
 Message-ID: <199705012036.QAA19878@mail1.infinet.com>

Hello all:

I had a hard disk go south this week. I lost most of what I had, and ALL my email files. A few members on the lists had asked me to link their web pages to the CQrp web site. Unfortunately, your requests are lost as well.

<http://www.infinet.com/~len>

Please let me know if there are any link requests pending.

Best 73

Len len@infinet.com w8vq@infinet.com

```

-----
==                ==  =====  ==                ==  =====
==                ==  ==        ==  ==                ==  ==
==                ==  ==        ==  ==                ==  ==
==      =      ==  =====  ==      ==  ==                ==
==  =  =  ==  ==        ==  ==      ==  ==                ==  \\==
==  =  =  ==  ==        ==  ==      ==  ==                ==  \\=

```

== == ===== == =====\\

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: Scott Bauer <ke3nv@erols.com>
Subject: [18706] DX posting 3B8CF
Message-ID: <199705010353.XAA31797@smtp3.erols.com>

3B8CF IS ON 10.103.7 NOW 0350Z CALLING CQ. ICANT GET HIM,
GOOD LUCK.
72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV
Fists 1502 QRP Nut SWL Truck Pilot ARRL
Current QRP rigs: Green MTN 15 & 17, HW-8, G-QRP GQ-40
S&S Eng ARK-20, ARK-30, ARK-40, TAC1-80. Emtech NW-8030
 49er 38 special at 300mw
visit my web page at <http://www.erols.com/ke3nv/>

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: nf0r@slacc.com
Subject: [18709] DX!
Message-ID: <9704302333.D5509Sg@slacc.com>

Hi folks!

Worked 3B8CF at 0335Z on 5/1 with a Corsair I and 5W to an attic
doublet. Zone 39 at last (30M) but not chasing DX these days! <grin>

Have decided to chase 38-Specials for a change of pace. Two last night
in NC while running portable (Argosy II & SLV with W6MMA 10-40M coil)
and another tonight in TX with the previously mentioned home station.

Can't imagine our hobby ever getting boring!

de Dave, NF0R nf0r@slacc.com

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: n4js@amsat.org
Subject: [18743] FW: HW9
Message-ID: <XFMail.970501131830.n4js@amsat.org>

Well, I just fired up the HW9 I bought from a fellow qrp-ler. Thought I would have to twaek tuning, etc, but it puts out 4-5w+ on all bands except 10, where it is 3.5w. Better than I expected. Had a quick qso with W9SE for another wimps contact on 30M. Looks like a keeper! Very mint looking and operating!

Sent at 13:18:30 on 01-May-97

```

      John L. Sielke n4js@amsat.org n4js@pobox.com
| \ | | | | | _ | | / _ _ | n4js@n4js.ampr.org NJ Grid:FM29LN
| . ' | | _ _ | | | | \ _ _ \ http://www.qsl.net/~n4js
| _ | \ _ | | _ | \ _ _ / | _ _ / NJ-QRP #57 QRP-L #884 QRP-ARCI #9328
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243
WIMPS Qs=012 30m=12 17m=0 12m=0 States=04/00/00 Countries=08/00/00
```

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [18702] Got the spring QRPP!
Message-ID: <8D6E462.00040029CF.uuout@cheaha.com>

-> Excellent job again! Thanks to Doug and Jim.

Still awaiting mine here in 'Bama. Signed up in October, missed the December issue (got the '96 compilation, though! :)), and I'm eagerly awaiting this issue. From the reveiws I'm reading, I can't wait! :)

72/73

Ed Welch KF4KRV

NorCal Member #???

1st Grand Poobah ScQRPion of Alabama

QRP-L #873 - FISTS #2964

Luverne, Alabama

Crenshaw County - Grid EM61

```

+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+
```

> Isn't "time" a 4-letter word? <

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: Roger Traylor <traylor@ECE.ORST.EDU>
Subject: [18738] HB: square wave drive; was R2 kits
Message-ID: <199705011626.JAA26960@pal.ece.orst.edu>

Zack,

Neil Heckt wrote:

> > One article suggests that square wave is better because during the
> > zero crossing of the sine wave, the input signal is larger than the
> > L0 causing significant IM distortion.

You wrote,

> The relevant paper was done by Rafuse and Ward of MIT. I measured
> a significant improvement using narrowband analog techniques to accurately
> square up the waveform.

Where can I find this paper? I'd love to read it.

Thanks,

Roger Traylor
WB4TPW

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: Ed Loranger <we6w@qsl.net>
Subject: [18735] HW-8 Works!
Message-ID: <3368B979.7775@qsl.net>

Hey everyone! It looks like I can put the phillips
screwdriver away. After chasing a bad reception problem
on 15 Meters for 2 weeks I have proven to myself (A hard
sell), that the rig is now a performere there.

Last night I tuned up to 21.150 MHz to monitor the w6wx beacon
and after many minutes of tuning, peaked him in the narrow
filter. Still only got him good at the 10 Watt tone. But
then all of a sudden I thought someone was trying to call
the beacon. Who could this be? Well, from 0325Z to 0345Z
I actually heard Hawaii, KH6WO beacon and all 4 tones!
That's right, .1 Watts to California! I must be in the
skip zone for w6wx as I rarely heard the 1 watt,(3rd) tone.

Anyway, just wanted to close the book on my rig. Thanks all
for the suggestions!

And the drumroll..... My new sig with HW-8 added.
-Ed L.

--

72/73 de WE6W QRP .3W QSX 7040 KHz SK ee (First and Last callsign!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.
mailto:we6w@qsl.net QRP-L member #1068.
<http://www.qsl.net/we6w>

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [18714] J-38 Key Source
Message-ID: <Pine.A41.3.95b.970501011356.93024B-100000@homer38.u.washington.edu>

I received quite a number of inquiries asking for the source
and price of the J-38 key. Here's the particulars:

Bob Morgan	Key:	J-38
Test Equipment Sales	Price:	\$20.00
RD 1 Box 1654	Shipping:	\$ 4.80
Moscow, PA 18444		-----
FAX/Telephone: (717) 842-5590	Total:	\$24.80

I called Bob via phone to order my J-38. He described to me
the different variants of the J-38 which he had in stock, then
sent the desired key. The J-38 arrived vacuum packed via UPS
while the bill arrived USPS a few days later. Talk about service,
WOW! If you're lookin' for a J-38 then here's the place to get
it!!! Enjoy.

Stephen Lee, AB7HI, Tacoma, WA
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [18708] juno problem
Message-ID: <199705010407.XAA01456@admin.inetport.com>

Is it just my wife's machine or is juno really hung up and not
allowing mail to be received????

Got the qrpp in the mail and agree with the others...
that centerfold is nice....

Got the rainbow tuner also....come on soldering iron...
Get hot....

72

Larry
KA5T lewise@inetport.com

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: Randy Hargenrader <randyh@harksystems.com>
Subject: [18753] KL sunday nite net
Message-ID: <3368F30A.7943@harksystems.com>

Hi Gang,
Last Sunday nights' net was attended by some hardy souls that could brave the QRN monster. My ears still ring when I think about it! My thanks to all who helped relay (QSP) check-ins and helped call the net (QPC) for a moment to see if there were stations that couldnt hear me.

QNS: K4NK, AA4XX, K2SJB, N1QQV, N3GO, AE4IC, KU2PH, WA8LCZ,
WB0CLD, WJ4P/WQ4RP.

Most of the remarks referred to the conditions with awful QRN. All stations, regardless of power out are welcome to check-in with us. If you are ever hanging out in the shack at 930 eastern time on a Sunday night, give a listen for us and feel free to check in!

--

73, (Sir)Randy WJ4P
Knightlites QRP-L #296 ARCI #9152 1996 40-9er High Scorer

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Mark S. Adams" <msadams@acsu.buffalo.edu>
Subject: [18755] Logging w/Windows CE Computer
Message-ID: <199705012032.QAA96266@nss2.CC.Lehigh.EDU>

Hi Gang,

I know some of you do your portable logging with a Psion or HP100/200 palmtop. But has anyone tried this with a Windows CE computer? The price for a new HP is steep (and it does not do windows-I think) along with the CE machines. I imagine the Apple Newton is likewise quite expensive. I missed out on the Psion deal at Office Max a while ago.

I am thinking about giving my Franklin Planner a well deserved retirement

in favor of electronic planning. Of course this same piece of gear is perfect for logging in the field :-). Any comments are of course appreciated.

Has anyone seen these computers used? Are they available at computer shows/fests? How much do they sell for? If the price were right I would get one and dedicate it to radio logging.

72, Mark N2VPK

Member of the Buffalo QRP Connection

WIMPS: Qs=007 30m=7 17m=0 12m=0 States=07/00/00 DXCC=04/00/00

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Douglas L. Datwyler" <datwyler@mail.aros.net>
Subject: [18719] Lost Dutchman Mine
Message-ID: <336892A6.5009@mail.aros.net>

The following comments may be construed as NOT QRP related, unless voices from the past (geneology) is considered QRP

>>>>EXTRACTED FROM DIGEST 711

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: n0acs@juno.com (John R. Morris)
Subject: [18745] LOST DUTCHMAN MINE
Message-ID: <19970501.113140.6847.0.N0ACS@juno.com>

The Lost Dutchman Mine was somewhere in the Superstition Mountains in Arizona.

73 John

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: jerryh@webzone.net (Jerry Henshaw)
Subject: [18722] Mercury Paddles vs Schurr Paddles
Message-ID: <01BC5607.6CE5F1A0@chenshaw.ionet.net>

Hi Gang,

Well, I received several replies concerning the above question. The = overwhelming consensus ---- buy a Mercury Paddle. Could someone email = me the address and/or phone number for ordering a Mercury Paddle?

Thanks to all who responded. Is this list good or what?

72's

Jerry Henshaw

KR5L

(See you all at Dayton)

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997

From: Brad Mugleston <bmug@gw1.com>

Subject: [18691] Mobile Antennas

Message-ID: <01BC5567.768D5EA0@pps-pc10.gw1.com>

I asked the question a few days ago about mobile antennas, here is what I learned.

For single band use the Hamstick (abt \$20) works fine, its not the best but it is about 1/3 the cost of the next level.

Next people were mixed, there is the Hustler (about \$35 for the base and \$30 to \$35 for each band. Can hold 3 antennas on one base with an adaptor) then various "Screwdriver" antennas. The Screwdriver antennas seem to cover all bands with one antenna and work GREAT - cost around \$250.

>From Dave NOUVR - "Worldradio" had a review in the July 1995 issue. They measured the output on various mobile antennas - the spread wasn't too great between the best (a homebrew) and the worst the Hamstick.

Thanks for all the help - I think I'll start out with the Hamstick and if I don't kill myself and end up needing additional bands I may go to one of the others. (I also am looking into building one around my father-in-laws 102" CB whip, which is more fun anyway).

thanks

Brad, KB0ROL

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997

From: ji3m@maxwell.com (James R. Duffey)

Subject: [18690] Monitoring 10 M for Sporadic E

Message-ID: <v02130500af8d838ca9c6@[192.31.66.229]>

In addition to the beacons, the 10-10 calling frequency of 28.345 usually

has activity as early as the beacons do when 10 M is open. Those number collectors are tenacious. Don't expect to chat on the frequency though. I also monitor the 10 M FM frequencies, simplex on 29.6, as well as repeaters on 29.62, 29.64, 29.66 and 29.68 for activity. These have louder signals and sometimes higher antennas than the beacons and can be as loud or louder than the beacons.

It has been my experience that CW is scarce on 10 M during an E opening and QRP CW is even more scarce. I have often heard the SSB Novice/Tech portion of the band open with no CW signals to be heard. I have called CQ on 0.060 for a half hour or more with no takers during an E opening. There are usually more Novice CW signals than those in the regular part of the band. If you hear SSB signals move down to 0.060 and give a call when you hear the band open! If you listen it will open. (At least at this time of the year and if you listen long enough)

If 10 M is open with Sporadic-E, 12 M, 15 M and perhaps 20M will also likely have Sporadic-E. Being at lower frequencies it is likely to last longer than E-Skip on 10M. If 10 M closes move down to the next lower bands and see what is coming in.

Now is the beginning of the Sporadic E season. Listen to 10 M often enough between now and the end of July and you will have a ball.

See you on 28.060 - Duffey KK6MC/5

James R. Duffey
Principal Scientist
Maxwell Technologies Incorporated/Albuquerque Division
Suite 300
2501 Yale Blvd SE
Albuquerque, NM 87106

(505) 764-3143
(505) 843-7995 (FAX)

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: ji3m@maxwell.com (James R. Duffey)
Subject: [18729] More 10M Sporadic-E
Message-ID: <v02130501af8e51921367@[192.31.66.229]>

Last night about 0200 Z after supper I turned on the rig to 10M and there was a weak E opening in progress. The only beacon I could copy was K5AB in central Texas which was a bad sign since when the skip gets that short it

usually means the Sporadic event has been going on for a while. There were a half dozen SSB QSOs in progress none too loud. There was also FM on 29.620, but it was noisy and I could not get a locale.

I called CQ on 28.060 off and on until 0220Z or so with no takers, but then I thought I heard a weak reply. It turned out to be KB7SFA, MT, in QSO with AB0ES, MN. I tried to wait until they where finished to tail end, but they faded away. Called CQ some more with no takers.

I forgot one sure fire indication of Sporadic E in my post yesterday. The CB band below 10M is chock full of signals and heterodynes whenever 10M even tries to open. I tuned down there last night to hear a lot of activity including truckers in Kansas. I just have to overcome the creepy feeling I get monitoring the band.

I hate to pick nits, but it is sporadic-E, not sporatic-E. No big deal, just thoguht I would mention it. The dictionary definition of sporadic fits the phenomena perfectly, "occurring occasionally, singly, or in scattered instances". "Sporadic-E layer" is also listed in my old "Websters 7th New Collegiate Dictionary"! This is not a flame. We want your input no matter how you spell it. Part of the list is education right?

In New Mexico we will get Sporadic-E openings several times a week between now and the middle of July. I need to get that 6M rig fixed. - Duffey
KK6MC/5

James R. Duffey
Principal Scientist
Maxwell Technologies Incorporated/Albuquerque Division
Suite 300
2501 Yale Blvd SE
Albuquerque, NM 87106

(505) 764-3143
(505) 843-7995 (FAX)

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: n4so@juno.com (charles k brown)
Subject: [18693] Negative Bias Keying
Message-ID: <19970430.173911.4263.3.n4so@juno.com>

A simple circuit is shown in QST mag October 1996 on page 71 in Hints and Kinks -- titled CMOS Super Keyer III Negative -Bias Keying.

The keying device is an MPS -A92 pnp transistor, 2 resistors, a diode and input and output connector jacks.
The ARRL Handbook has similar circuits showing negative-bias keying using other devices.

Ken Brown, N4SO
QTH nr Mobile, AL
qrp-1 #622
n4so@juno.com
and looking for 38 Special contacts

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Brian Jones" <brian_jones@uk.ibm.com>
Subject: [18758] NO SUBJECT
Message-ID: <199705012109.RAA77706@nss2.CC.Lehigh.EDU>

Another one gets bitten

All,
despite being a follower (on and off) of this list for a little while - I MADE MY FIRST QRP CW CONTACT TONIGHT!!!!

Worked SP9WTN who gave my 4.5 watts from the MFJ9020 into home made inv V a 549. Not earth-shattering DX but I was sure excited! SP9 tonite BS7 tomorrow :-)

Been a good week 'cos on Monday I found I can get over to Dayton this year (it costs my employer 60 bucks less if I spend the w'end in Dayton than if I return to the UK direct on Fri 16th - my manager seemed happy for me to save him money!!)

Unfortunately he won't pay accomodation but you can't have everything. Talking of which I haven't found anywhere. Anyone with a cancellation or any ideas for anywhere nearer than Colombus or Cincinnati PLEASE e-mail me)

73 and hope see some of you at Dayton.

Brian G0UKB (& KB8YKJ)

Brian Jones
Java Technology Centre
HURSLEY MP 146 Ext 246896 (+44 1962 816896)
BEJONES AT WINVMD brian_jones@uk.ibm.com

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: Charles Cashion <ccashion@spdmail.spd.dsccc.com>
Subject: [18730] NORTEX meeting notice
Message-ID: <199705011425.JAA06407@vob005.spd.dsccc.com>

QRP*ers

The North Texas QRP Club, a.k.a. NORTEX, will meet this coming Saturday, May 3, 1997, at 10:AM at Silicon Graphics Inc Cray Research offices. The location is 6200 LBJ Freeway.

From the corner of Preston and LBJ, take the East bound access road (on the South side of LBJ). Proceed about 300 yards or so just past the Best Western Hotel to an empty lot. Make the turn into the empty lot, and proceed to the back to the parking lot. There is a sign with 6200 LBJ on it showing an arrow to parking and deliveries. (If you miss first turn into the empty lot, the next turn will also allow you to get to the parking lot.)

These meetings are always informal and open to anybody interested in QRP. Bring a friend. Bring your latest project.

The meeting room is on the second floor as you go in the West side of the building you'll enter the central area and there is a winding staircase (and an elevator) to the second floor. The room is on the north-west corner of the building.

72s, Charles Cashion, W5ISZ
ARRL NorTex#116 NorCal#1320 QRP-L#76 (do we love numbers?)

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997
From: "Jerry Martin" <jmartin@tofu.alt.net>
Subject: [18763] Psion
Message-ID: <199705012228.PAA26378@tofu.alt.net>

I would be interested in finding out what other hams are doing with Psions. I have a 3A that I can't live without, but the only ham software I have for it is a morse code practice program.

Did I miss this Thread.?

>I know some of you do your portable logging with a Psion or

HP100/200

Jerry Martin
NOBWA
jmartin@alt.net

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [18744] QRP Cap update ...
Message-ID: <3368d090.139097866@smtp.usit.net>

I have spoken with a couple of the BOD members for QRP ARCI and we're investigating the caps mentioned. I have found a source for the caps and embroidery. Putting the callsign on the back is not an option, however.

These caps that I have located are sized S/M/L/XL, but adjustable. Perhaps after Dayton QRP ARCI will look to do this, so stay tuned. I'd do it myself, but I don't have the capital available, plus ARCI should be the beneficiary of the profits. Nothing is finalized, and if another source is found by any of you, please let me know (don't bother the BOD with this -- I'll coordinate as much as I can).

I'm also sending e-mail to the ARRL for similar style ARES caps.

Specs: These caps are black, standard Navy issue, polyester-bonded. No plastic mesh, all season wear. Hold up well in all weather conditions, etc. Very, very lightweight and comfortable -- also used by Police, FBI, Sherriif, DEA, Coast Guard, etc.

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
~~~~~

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: DENNYV <DENNYV@clarityconnect.com>  
Subject: [18761] QRP ITEMS FOR SALE



Message-ID: <336937D3.1C8D@clarityconnect.com>

Hi I have the following Items for sale

Heathkit HW-7 with manual Works o.k. is modified for BNC connector and a coaxial power connector. also has a verier dial on the reciever preselector control otherwise looks unmodified. \$55 pp in usa

Small Wonder Labs White Mountain 20 meter tranciever Kit. Built and working. mounted in 7x5x3 mini-box does not have the accessory kit, but uses a 3 turn 30k pot for tuning. Covers 14180-14350 khz uses a turns counting dial indicator (yes its hokey but it works) included in the deal are a Radio shack speaker mike and a Ramsey 20 mtr qrp amp that works but I'm not that thrilled with it. I originally built it this winter for a camping trip but didn't use it, and probably won't \$130 shipped usa

AEA DX-HANDY 10 meters 28.4-28.5 mhz works fine no manual \$130 shipped usa

If you are interested in any of this stuff Email me at  
DENNYV@clarityconnect.com  
73 Denny AD30

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: tahrens1@juno.com  
Subject: [18751] QRP+ Callsign EPROM mods  
Message-ID: <19970501.122355.4887.0.tahrens1@juno.com>

Could someone let me know where in the EPROM of the INDEX+ the serial # is located, and how to change to my callsign. Evidently it isn't straight ascii, cuz I searched & couldn't find the string.

Thanks a lot!

Tim W5FN

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Peter\_Simpson@3com.com  
Subject: [18736] QRPTTF - story and photos  
Message-ID: <8525648A.00560265.00@hqoutbound.ops.3com.com>

Peter Simpson@3COM  
05/01/97 07:42 AM

The KA1AXY/KC1TD QRPTTF expedition is chronicled on my (new) homepage  
at: <<http://www.geocities.com/CapeCanaveral/1862>>

Peter, KA1AXY  
Celebrating 300 Years of Alien Abductions

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Rick Tavan <tavan@tibco.com>  
Subject: [18757] QRPTTF Theme Location  
Message-ID: <3.0.32.19970501094829.0076a884@tekbspa>

My location for QRPTTF may have fit better into the prior theme of Sites of Historical Interest. I was in Truckee, CA near Donner lake, trail and summit, all named after the infamous Donner Party that became stranded there in the terrible winter of 1846-47, losing many lives. Legend has it that some resorted to cannibalism in a desperate attempt to survive.

More in keeping with the current theme, I flew to Truckee in a light airplane without the assistance of air traffic control. (This IS legal.) Thus, in essence I WAS an unidentified flying object.

Only operated a couple of hours on 40m with a Norcal 40A and an MMA/SLV. 24 Qs in 7 states.

72,

/Rick N7TN

-----  
Rick Tavan  
TIBCO Software, Inc.  
3165 Porter Drive  
Palo Alto, CA 94304  
+1-415-846-5000  
tavan@tibco.com

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Joe Everhart <n2cx@voicenet.com>  
Subject: [18695] Rainbow Build-II Update  
Message-ID: <199705010109.VAA20847@mail3.voicenet.com>

Group,

OK we're getting there! NJQRP now has the Rainbow ordering records up to date through order number 360. E-mails are on their way to everyone not previously contacted to verify their order! Thanks to everyone for their patience.

Orders from 325 thru 360 will be in the mail by the end of the week, so you all will be getting them shortly.

Orders continue to arrive and we are still accepting them. In fact we have decided to proceed with Build 3!

After #360 goes out the door there will be a slight hiatus in shipping so that we can get ready for Dayton. Vince, WA2ECP and Joe, N2CX will be in attendance at FDI and in the QRP hospitality suite with Rainbow kits in hand.

And in case you haven't done so already, (many have - 4532 hits so far) go to the njqrp web page at <http://www.njqrp.org> and look at the Rainbow Tuner section. There are photos, reviews, a schematic digaram, technical info, app notes and much more. It's good place to go to find out what the current status is and find answers to your questions any time!

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: [jeverhart@cayman.vf.mmc.com](mailto:jeverhart@cayman.vf.mmc.com)  
home: [n2cx@voicenet.com](mailto:n2cx@voicenet.com)

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Joe Everhart <n2cx@voicenet.com>  
Subject: [18697] Rainbow Tuner Parts Tip

Message-ID: <199705010208.WAA25931@mail3.voicenet.com>

Group,

I've had several questions about the LEDs used for the Raibnow display.

They are:

D3 Red  
D4 Orange  
D5 Yellow  
D6 Green

The ones we purchased for the kit are from Digikey. All but the orange one have plastic bodies that are colored the same as the illumination color. In the series we bough, the orange one is *\*not\** colored, but clear plastic. But it *\*is\** an orange LED! When it illuminates, its color is a kind of reddish orange.

You can check this out for yourself with the "Joe's Quickie Hint" at the top of page 6 in the manual!

So never fear, it really is the right part!

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com  
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: af852@rgfn.epcc.Edu (William R Colbert)  
Subject: [18696] SSN on equipment and high speed CW  
Message-ID: <9705010152.AA01101@rgfn.epcc.Edu>

The title has no relavence to either subject.

Someone posted that their HT had been "borrowed" but that it had the SSN engraved on it. Having been in the law enforcement field for many years, we were always told to never use the SSN (Social Security Number) as privacy act rules prevent any information from being given out, the exception is when that number is also the state's driver's license or state ID number, then it has to be preceeded by the initials for the state and DL i.e. tx dl#12345 etc.

High speed CW - just sitting here listening to W1NJM's code practice on 7023 (also on 3523) which started at 0130. Runs from 40 to 60 wpm tonite and a qualification run will be in a few days. For those that want to go past the W1AW speeds, this is a good chance to do so - I think the alternate for this practice/qualification run is K6DXZ?.

73

Ray

--

Ray Colbert, W5XE, SOWP 1064M, 00TC 3618, FISTS 2146  
El Paso, Tx

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: svecbrdk@well.com (L.Svec,W.Burdick)  
Subject: [18705] SST article typo: 40m novice-band version VX0 range...  
Message-ID: <199705010338.UAA25619@smtp.well.com>

...is about 7.105 to 7.115, not 7.110.

Wayne  
N6KR

P.S. -- let me know if there's anything else I've missed!

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Kory Hamzeh <kory@avatar.com>  
Subject: [18747] SWR Bridge Help  
Message-ID: <Pine.BSI.3.91.970501104821.10265H-100000@avatar.avatar.com>

I was a schematic for an absorbing SWR bridge in the Sep 94 issue of QRPp (page 64). I'd like to build this puppy, but it seems to me that this design would only show the forward power and not the reflected power. If you have access to that schematic, can you please look at it and tell me why my thinking is wrong?

Thanks,  
Kory  
AC6RN

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Wayneb1103@aol.com  
Subject: [18699] T1 38S - problems  
Message-ID: <970430220912\_941138249@emout16.mail.aol.com>

I rewound T1 - making sure that the phasing was correct and set it to 19 turns. So far I have taken 2 turns off with very little effect and only 1 peak. The radio is still deaf. I can hear signals so I know the band is open but they be way down. Experimented with different ear phones and speakers but nothing...

Side tone is good, had to put the 1 meg in to make it comfortable but the programming tones for the tick keyer are almost inaudible. I suspect because of that big resistor. I went through and once again checked the voltages. I then hooked up an RF generator to the 259 and started tracing through with a scope. The audio signal from the RF generator was really loud so the amp was working which I varified with the scope. Watching the scope and turning TC1 I still could only see 1 peak (thought maybe I couldn't hear the second peak).

I jumpered out the RF gain pot with no change.  
D1 and D2 seem normal and equal.

On the transmit side everything works fine. Have the 5 watt mod installed and people across town say it be clean so I suspect that the output filters, L3 and L4 are ok. On the bright side I don't hear any thumping :)

With nearly 1500 kits out there I can be the only one having this problem and yes, I have considered buying a new kit and starting over :)

Thanks in advance...

Wayne WB7WHI  
Spokane, Wa.

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: George Frazer <gf001@post.almac.co.uk>  
Subject: [18713] The R2-T2 & MiniR2 Rig info  
Message-ID: <01BC5604.99A4BEE0@ppp14.almac.co.uk>

Hi all

I am building some QRP gear and have been looking at QRP sites on the =  
net. I see a lot of mentions of the R2-T2 and miniR2 rx's and tx's. =  
Does anyone know if the original information, components used, PCB =  
layout's and schematics. If anyone knows of a web site that these can =  
be found on could you please let me know.

Many thanks and 73's

de George Frazer  
GI4SJQ

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Dennis Terribile <wr4i@mindspring.com>  
Subject: [18750] TRADE: ARGO 515 > ARGO II  
Message-ID: <199705011826.0AA24400@brickbat9.mindspring.com>

Hi all..

Would like to trade my Argo 515 with matching cw filter/notch filter and pwr  
supply  
for a ARGO II. Have all the docs . Rig is in very good condx and would make  
a great  
addition for a Ten Tec collector! Would expect to add some \$\$ to the deal to  
make it = trade.

OR..can also trade a unbuilt-in-the-box HW8 + \$\$ . (rig belongs to a local  
who wants my 515.)

Please...no \$ or other trades.

Thanks!  
72,  
Dennis/WR4i  
804-923-3550

wr4i@mindspring.com

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Ivan DeLisle <ve7dlo@mail.netshop.net>  
Subject: [18742] websites to swap gear results  
Message-ID: <Pine.LNX.3.95.970501100027.23686A-1000000@netshop.net>

Hi!

Thanks to everyone who replied to my request for websites or other places to swap gear. Here are the results:

several people suggested that it's ok to swap on qrp-1, but only if it's qrp equipment.

several people suggested the USENET group rec.radio.swap

and the following websites were suggested:

[www.webcom.com/webpub/class.html](http://www.webcom.com/webpub/class.html)  
[vhamfest.com/class.html](http://vhamfest.com/class.html)  
[webcom.com/webpub/vhamfest.html](http://webcom.com/webpub/vhamfest.html)  
[acube.com/hamswapshop/swap.htm](http://acube.com/hamswapshop/swap.htm)  
[uniqueweb.com/swap1.htm](http://uniqueweb.com/swap1.htm)

The first 3 might be the same place, I'm not sure.  
Thanks again!

72, Ivan

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "Wm&Penny Kresl" <kresl@elknet.net>  
Subject: [18698] Re: 2 metre QRP - any ideas  
Message-ID: <B0000202149@www.elknet.net>

Years ago I made a 2m RX and TX using the MOTOROLA single chip devices for each. I forget the numbers off hand, but you should be able to find a reference to them on their web page. I made some heavy modifications to the receiver circuitry as I wasn't impressed with its performance at first. Its a basic dual-conversion design requiring a 10.7Mhz ceramic filter and 10.245 xtal with a 455Khz IF. I tried various MURATA ceramic filters, til I found



a suitable part.

I made a low-noise figure grounded gate JFET amp supply the front end of this chip (balanced input). Having a NF meter helped. This required careful layout and Z-matching/tuning (using a helical resonator).

I made PC BOARDS for my design, though you may want to breadboard and play with the circuit for your use.

A critical component in this design is the Quadrature coil. I managed to pull a few from some old FM radios for testing. By plotting out the response of each core at the detector output, I chose the best one and then played with the Q of that with various values of swamping resistors. This was a real time burner. The TX was straight forward, putting out a couple hundred MW.

Squelching of this device is fair, I didn't pursue optimizing that part, though it could use it. Used an LM-386 for the audio.

Cheerio,  
Bill-WB9BBC

-----  
> From: Martin\_Peters@mon.bbc.co.uk  
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> Subject: 2 metre QRP - any ideas  
> Date: Wednesday, April 30, 1997 12:22 PM  
>  
> Hello all,  
>  
> I'd like to build a low power FM tx for 2 metres using as few components as  
> possible.  
>  
> I know there are a couple of chips that'll generate some FM but never seen a  
> practical cct.  
>  
> Alternatively, has anyone ever reverse-engineered one of these  
> xtal-controlled bugs and interfaced it with a proper antenna.  
>  
> Any ideas/thoughts much appreciated.  
>  
> Martin G4EFE

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: n5zgt@swcp.com (Brian Miles Hosky)  
Subject: [18762] Re: 2M DF

Message-ID: <199705012215.QAA01321@kitsune.swcp.com>

At 01:32 PM 5/1/97 +0800, Joseph Siong 9M8ST/V85ST wrote:

>Hi Qrp friends,

>

>Does any one have any experience in 2M DF activities would like to hear  
>views and type of equipments used.

>

>Have been experiencng a some qrm caused by "pirate stations".

>

Hi Joseph,

Try this web page: <http://www.swcp.com/~ab5p>

This is perhaps the best Transmitter Hunting web page there is on the Internet. It contains a ton of information, and many many links to other RDF pages. Good luck!

72,

Brian, N5ZGT

---

|                          |                                                |
|--------------------------|------------------------------------------------|
| Boy Scouts of America    | Amateur Radio - N5ZGT                          |
| Eagle Scout (12-6-96)    | ARRL QRP: NorCal# 1700 QRP-L# 580 AK/QRP # 125 |
| JASM - Troop 41          | Author of Worldradio's "Youth Forum" Column    |
| Albuquerque, N.M.        | Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NOAM        |
| O.A. Lodge 66 <-W-W-W-<< | Internet: n5zgt@swcp.com                       |

---

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997

From: Chris Cartwright <ccart@dns.vidtel.com>

Subject: [18720] Re: 9V Battery Life

Message-ID: <Pine.LNX.3.93.970501075123.438A-1000000@dns.vidtel.com>

On Thu, 1 May 1997 K4AHK@ix.netcom.com wrote:

> Does anyone have a chart for the amp/hour ratings of alkaline  
> batteries? How long will a 9-volt alkaline battery last at 20ma drain?

As I remember from the duracell web page, their 9V was was rated at 565 mAH, so that would give you about 25+ hours of use with a constant load. I've got 120mAH 9V nicads since Duracell is a little to rich for my blood. I've only ever checked [www.duracell.com](http://www.duracell.com), but I suppose most of the other manufacturers would have a page, and Radio Shack has the specs on their alkalines if you ask.

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --  
-- Phone 301.990.0735 N3XRV QRP-L #655 | ccart@erols.com --  
-- QRP WAS 14/8 (w/c) QRP-ARCI #9271 | http://dns.vidtel.com/~ccart --  
-- WIMPS Q's=01 30M=01 17M=00 12M=00 STATES=01/00/00 DX=00/00/00 QSL's=00 --

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [18732] Re: 9V Battery Life  
Message-ID: <199705011517.KAA31856@multi13.netcomi.com>

For a quick ballpark estimate, I just turn to my handy Digikey catalog.  
Page 414 of the March/April lists Panasonic Alkaline batteries.  
Calculating out the amp-hr rating, I get approximately 400 ma-hr, so your  
battery should last 20 hours, as long as your equipment can run with the  
battery as low as 5.4 volts.

Mike K1MG

-----  
> From: K4AHK@ix.netcom.com  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Subject: 9V Battery Life  
> Date: Thursday, May 01, 1997 3:38 AM  
>  
> Does anyone have a chart for the amp/hour ratings of alkaline  
> batteries? How long will a 9-volt alkaline battery last at 20ma drain?  
>  
> Bill - K4AHK

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "Ed Manuel" <n5em-qrp@msn.com>  
Subject: [18741] RE: 9V Battery Life  
Message-ID: <UPMAIL15.199705011712150718@msn.com>

QRPers of the world,

One thing to remember with discussing battery capacity is that the Ampere/Hour  
curve is not linear. You can estimate how long a given battery will last by  
dividing the AH rating by the drain or the current for so many hours but at  
low drains like 20 ma. a battery will have a greater AH rating than at higher  
current drains. I don't know what portable battery's use but most of the gel  
cell batteries I work with in telephone support use 8 hours discharge as the

basis for their AH rating. Best bet is to get the actual AH curve and see what it is at YOUR desired current load.

Ed

>I get approximately 400 ma-hr, so your  
>battery should last 20 hours, as long as your equipment can run with the  
>battery as low as 5.4 volts.

>Mike K1MG

-----  
> From: K4AHK@ix.netcom.com  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Subject: 9V Battery Life  
> Date: Thursday, May 01, 1997 3:38 AM  
>  
> Does anyone have a chart for the amp/hour ratings of alkaline  
> batteries? How long will a 9-volt alkaline battery last at 20ma drain?  
>  
> Bill - K4AHK

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "Bob Follett" <bfollett@ditell.com>  
Subject: [18760] RE: AA Battery capacity  
Message-ID: <199705012141.PAA16421@mars.ditell.com>

Gang:

If you are still holding on to Scott Rosenfeld's Battery Capacity list, let me bring it up to date:

AA Nicads now available are much more capable than the old standard of 600maH.

The best Sanyo's have a rating of 1000maH. These have thinner interior construction, thus, cannot take high current rapid charge, but at the normal C/10 charging rate, they work great -- and cost more :-). The BATMAN, in any ham mag. carries them, with or without tabs.

I use 10 cells for my 40A and Sierra portable needs.

73, Bob

-----  
Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS  
2861 Estates Dr. VOICE: 801.649.6457  
Park City, UT 84060 E-mail: bfollett@ditell.com

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Russ Carpenter <russ@natworld.com>  
Subject: [18759] Re: ARS: A Happy Anniversary  
Message-ID: <199705012120.RAA115990@nss2.CC.Lehigh.EDU>

Richard--you sly dog! What a nice anniversary present. Thanks for your hard work!

Russ

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "Arjen Raateland, SYKE/YV, puh. 09 4030 0457" <Arjen.Raateland@vyh.fi>  
Subject: [18754] Re: Dan's Cent. 80m(75m) SSB rig;  
Message-ID: <01IIDEPIMRQI8Y5B2L@vyh21.vyh.fi>

> Received the suggestion from Arjen Raateland OH2ZAZ(attached). Based on  
> this I have changed the 0.22 uF that feeds the mike sig. to the balanced  
> mixer to a 0.1 uF: I had already put in 0.1's most  
> everywhere else. The 0.1 uF is the recommended value but 0.22 (listed sub.)  
> came w/ the kit. Haven't got a signal report on it but this is my best guess.  
> (0.1 uF = 100 nF).

Don and gang,

I didn't have the schematic of my WM-75 around when I suggested to have a look at the coupling capacitor values, so the values I quoted were not quite correct. Furthermore I would like to say that IMO it pays off to do some calculating before changing capacitors.

The original value of the capacitor coupling the mic amp to the diode ring modulator was 47 microF. It is now 2.2 microF. The new value was based on an estimated value of the input impedance of the modulator circuit (in my case 150 .. 200 Ohm) and a cut-off frequency of 400 Hz.

With 47 microF the cut-off would have been below 50 Hz.

Formula:  $F_c = 1 / (2 \times \pi \times R \times C)$ , where  $\pi$  is ca. 3.1416,  $F_c$  the cut-off frequency,  $C$  the coupling capacitor value and  $R$  the input impedance of the modulator circuit.

> If not this then the problem may be a difference between the two 5.185  
> Mhz IF oscillators that are used in the receive and transmit sections. As  
> of now, the component values of both oscillators circuits are listed as  
> identical (received a comment suggesting that this may be the problem).  
> The VFO is shared between the two sections. A change in the VFO between  
> RX and TX could also have the same effect but I haven't observed this on  
> my freq. counter.

I checked the carrier frequencies on my WM-75 by listening to the signal from the RX CIO at the IF frequency with a General Coverage RX and then activating the TX (push PTT switch). Both carrier oscillators then run at the same time and a beat note is produced on the GC RX. One of the oscillators has an trimmer cap, so this is adjusted for zero beat between the two carrier oscillators. The GC RX should have a short antenna wire attached that is laid over the board of the WM-75. The wire can be positioned such that both oscillators are heard about equally well for the loudest beat note. It is not necessary to modulate the TX during this test.

This assures that receive and transmit is on the same frequency, but actually doesn't assure the carrier is positioned correctly relative to the pass-band of the filter. However only one carrier oscillator was adjustable and it worked out OK for me as far as I'm aware.

> Note, the manual recommends power measurement by measuring the peak voltages  
> (on an O'scope) and calculating using  $E^2/R$ . Based on this, I may be putting  
> out 8W but using the meters in my shack (in peak mode), the reading is 2.75 max.

I would tend to believe the oscilloscope readings, but you have to use the right formula. Peak-to-peak voltage  $E_{pp}$  is easiest to read. The formula is  $P = E_{pp}^2 / (8 \times R)$ .

gl with all those new SSB kits es 73, OH2ZAZ  
Arjen Raateland  
---... ---... ---... ---... ---... ---... ---... ---...  
Finnish Environment Institute, Helsinki, Finland  
SAS Support  
EMAIL: Arjen.Raateland@vyh.fi  
tel. +358 9 4030 0457  
fax +358 9 4030 0490  
...-.-

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "Douglas L. Datwyler" <datwyler@mail.aros.net>  
Subject: [18717] RE: dsp transceiver  
Message-ID: <336887CF.6D49@mail.aros.net>

EXTRACTED FROM DIGEST 707

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "Bob Follett" <bfollett@ditell.com>  
Subject: [18740] RE: FDIM -- Latest Registration List  
Message-ID: <199705011703.LAA08620@mars.ditell.com>

Gang:

Time is near!! FDIM is two weeks away! We currently have 117 signed up, but can still handle more -- And yes, you can register at the door, but you won't get our hand-out book, as we had to close the order for it a few days ago.

Also note that Preston's latest badge list does not have my latest registrants yet, because of logistics. If your name appears here, you ARE registered.

Any corrections or questions? Send an E-mail to me.

| LAST      | FIRST   | CALL     |
|-----------|---------|----------|
| Adams     | Chuck   | K5FO     |
| Albert    | Ted     | KF8EE    |
| Antczak   | Ernie   | NC8N     |
| Bachmann  | Richard | N3SLR    |
| Beedlow   | Peter   | NN9K     |
| Benson    | Dave    | NN1G     |
| Bertuzzo  | Serge   | VA3SB    |
| Bornstein | Steve   | K8IDN    |
| Bowman    | Bob     | AA5VS    |
| Brown     | Dave    | K8AX     |
| Bruner    | Bob     | WB4TAJ/9 |
| Butler    | Ralph   | K6ZAN    |
| Butler    | Ray     | WA4KEJ   |
| Carr      | Mike    | WA1QAA   |
| Carver    | Bill    | W7AAZ    |
| Cavcey    | Ken     | W0YOR    |
| Corbin    | Robin   | NI9R     |
| Corbin    | Lowell  | W8IQB    |
| Cumming   | John    | VE3JC    |
| Diana     | Gary    | N2JGU    |
| Dobbs     | George  | G3RJV    |
| Douglas   | Preston | WJ2V     |
| Doyle     | Ron     | N8VAR    |

|           |         |        |
|-----------|---------|--------|
| Doyle     | Don     | AC5II  |
| Durbin    | Ken     | K8CQ0  |
| Eilers    | Michael | AC4XS  |
| Evans     | Ken     | W4DU   |
| Evans     | John    | N3Q00  |
| Everhart  | Joe     | N2CX   |
| Fields    | Tom     | WB9VTY |
| Firlik    | Don     | K8AQZ  |
| Firth     | Graham  | G3MFJ  |
| Fishpool  | Tony    | G4WIF  |
| Fitton    | Jim     | W1FMR  |
| Follett   | Bob     | AB7ST  |
| Foote     | John    | KR4GL  |
| Frisz     | Tom     | N9DD   |
| Gaffney   | Bernard | N8PVZ  |
| Gingell   | Danny   | K3TKS  |
| Gobrick   | Bob     | N0EB   |
| Goemans   | Paul    | WA9PWP |
| Greer     | Jeffrey | WD4ETO |
| Harper    | Rex     | N1SYZ  |
| Hartley   | Charles | KM3V   |
| Hazelgren | Darryl  | AF70   |
| Henshaw   | Jerry   | KR5L   |
| Heron     | George  | N2APB  |
| Himes     | Martin  | WB8FNH |
| Hintz     | Gus     | W2ZHA  |
| Jackson   | D.O.    | N3LAZ  |
| Jivoiin   | Gregory | WD8JTN |
| Johney    | Gary    | N3BYN  |
| Johnson   | Harold  | W4ZCB  |
| Johnson   | Lee     | KE0MC  |
| Johnston  | Ray     | WA2YGY |
| Juch      | Fred    | N5JX0  |
| Karty     | Steven  | N5SK   |
| Kellogg   | Bob     | AE4IC  |
| Kellogg   | Ellen   | A1XYL  |
| Kelsey    | Bill    | N8ET   |
| Kohl      | Hank    | K8DD   |
| Lewallen  | Roy     | W7EL   |
| Lifland   | Tom     | W2RFU  |
| Ludinsky  | Chuck   | K1CL   |
| Lynch     | Martin  | KA1LXG |
| Manuel    | Ed      | N5EM   |
| Massena   | Fred    | KG80K  |
| Matheson  | Hugh    | K0QD   |
| Meier     | Pete    | WK8S   |
| Midkiff   | Monte   | N7TAU  |
| Mikuckis  | Joe     | K3CHP  |



|            |          |         |
|------------|----------|---------|
| Mitchell   | Brad     | WB8YGG  |
| Moizeau    | Charles  | W2SH    |
| Moriarity  | John     | K6QQ    |
| Moyle      | Al       | N3KFL   |
| Muscolino  | Bruce    | W6TOY/3 |
| Owen       | James    | K4CGY   |
| Parfitt    | Dale     | W40P    |
| Passione   | Vince    | WA2ECP  |
| Perry      | Mike     | PA3ASC  |
| Pietschman | William  | KB8QPE  |
| Powers     | David    | KB8RVS  |
| Puckett    | Dan      | WD8AAU  |
| Quick      | Paulette | WB9VHF  |
| Rea        | Al       | W8LRM   |
| Reed       | Wayne    | K9NE    |
| Rees       | Chris    | G3TUX   |
| Reid       | Glen     | K5HGB   |
| Roberts    | Ken      | VE3BGW  |
| Schill     | Bob      | N9ZZ    |
| Scott      | James    | W9KV    |
| Shearer    | Sam      | WB5ZJN  |
| Shilhanek  | Terence  | W0PFR   |
| Simon      | Ed       | K04C0   |
| Specht     | Philip   | K4PQC   |
| Stafford   | Jim      | W4Q0    |
| Stark      | Ron      | KU7Y    |
| Steyaert   | Roger    | K7RXV   |
| Switzer    | Buck     | N8CQA   |
| Szakonyi   | Dick     | KA3Z0W  |
| Szakonyi   | Kathy    | N3SAD   |
| Tankersley | John     | WD9EFN  |
| Tanton     | Ed       | N4XY    |
| Todd       | Ron      | K4WZ    |
| Touth      | Len      | W8VQ    |
| Tracy      | Dan      | KC9RH   |
| Trier      | Stephen  | KG8IH   |
| Utle       | Dennis   | AF7Y    |
| White      | Bob      | W03B    |
| Whitehead  | Ellis    | AA8SR   |
| Windish    | Walt     | KB2JE   |
| Winkler    | Dan      | N7IVR   |
| Wohlschlag | Dick     | WA9FLX  |
| Younce     | Jim      | K4ZM    |
| Young      | Terry    | K4KJP   |
| Young      | Paul     | KC2AHB  |
| Young      | Leonard  | KS4RN   |

73, Bob, FDIM Registration Chair

-----  
Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS  
2861 Estates Dr. VOICE: 801.649.6457  
Park City, UT 84060 E-mail: bfollett@ditell.com

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997  
From: "rwillcox" <rwillcox@newton.cacky.com>  
Subject: [18739] Re: Help with TenTec 1340  
Message-ID: <9705182209.AA08281@newton.cacky.com>

> From: "Jerry Martin" <jmartin@tofu.alt.net>  
> To: rwillcox  
> Date: Tue, 29 Apr 1997 09:51:01 +0000  
> Subject: Re: Help with TenTec 1340  
> Priority: normal

> The wattmeter will not show a real power level unless you are  
> transmitting into a 50 ohm load. When you detune the antenna the  
> power you are seeing is not real. The sidetone distorts because it is  
> taken from the transmitter and when high SWR gets back into the radio  
> it causes distortion of the pure sinewave.  
>  
> Look for bad solder joints. Did you solder to the ground plane on the  
> top where indicated?

Haven't found any yet but Im still looking.

>  
> Another place for errors is on torroids if you didn't get the  
> insulation all scraped off. Try ohming from one solder pad to the  
> other across the coils.

I checked the output with a scope before the torroids and it is about  
the same power level as after.

>  
> Is the final transistor insulated from the heat sink?  
>  
Checked with an ohmmeter looks OK.

> Hope this helps.

Thanks again for any help.

73's Gary

>  
>  
>  
> > I have a ten tec 1340 kit that Im having problems with. The rx works  
> > fine but the tx has reduced power output (< .1 watt). If I change swr  
> > with my tuner to 1.3 to 1 the power output goes up to about 3 watts  
> > but the side tone becomes very loud and distorted.  
> >  
> > any ideas.  
>  
> \*\*\*\*\*  
> Jerry Martin  
> NOBWA  
> jmartin@alt.net  
>  
>  
Gary Wilcox  
Commonwealth Aluminum

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997  
From: Bob Roach <KE4QOK@worldnet.att.net>  
Subject: [18694] Re: Homebrew Magazine  
Message-ID: <19970501010103.AAA21609@LOCALNAME>

At 10:42 PM 4/30/97 +0000, you wrote:  
>Anybody know what happened to "HAMBREW" the  
>magazine?  
>  
>Just noticed I haven't received one lately.  
>  
Hi Glen,

Unfortunately I think that there will not be anymore issues. There has been talk for a while now about selling or disbanding the magazine. The last issue was a "best of" issue and that does not seem very encouraging.

I am sad to see the magazine go. To my way of thinking it was more representative of what hamming is all about than any of the other mag. They all have there place but this one cut through all the crap and got down to lots of real radio in every issue. I would have been more than will to pay accordingly but it is unrealistic to expect enough people to do the same to make a difference.

(o o)

-----o00\_( )\_00o-----

73 es TNX

KE4QOK Real radios glow in the dark.

Bob Power is no substitute for skill.

If it stayed up last winter, it was too small.

136 Hermitage Rd.

Newport News, Va. 23606 KE4QOK@worldnet.att.net

(757)930-0348

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997

From: Bill Todd <bill@techline.com>

Subject: [18711] Re:Kenwood TR-7800

Message-ID: <1.5.4.32.19970501055935.006a8a80@mail.techline.com>

At 03:51 PM 4/30/97 -0700, you wrote:

>HOWEVER, there were at least two versions of the TR-7800 that had only

>144 to 146 coverage.

Doug - Thanks again for the information. Isn't it amazing how a person can start a thread of a question, and eventually enough minds get to work on a problem, and the answer comes out eventually...

We see it all the time on the List.

Somehow...with continued cleaning of this TR-7800, I NOW have use of 146 and 147 megs as well. Remember, this rig sat in the trunk of a guys car for about three years (hi), so it managed to get fairly goofy.

Someone called me yesterday evening and said he even had the operators manual for the 7800, and that we was sending it to me, cuz he no longer owns a 7800. That's what you call HELP (hi).

CUL, Bill-N7MFB

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [18725] Re: Keyer vs Bug

Message-ID: <336bb16c.65578726@smtp.usit.net>

On Wed, 30 Apr 1997 13:15:41 -0000, "Michael Connor"

<mikec@primenet.com> wrote:

> I was listening to 40 last night while fooling with the new OHR100 and  
>heard a guy calling CQ. Actually, it sounded much more like he was  
>sending "C E K". It sounded like a direct attempt at personal flair. =  
He  
>got not takers. A coupla KC's up the band N7ILM was calling CQ with a=20  
>slow steady straight key and was answered on his first call. I should  
>know; twas me that answered him.:-)

Before people get upset at the "anti-bug" comments, I think they  
serve a useful purpose on the list here. Someone mentioned  
privately that with more than one strike against us already, sloppy  
sending can only complicate our QRP lives ...

Plus, to add another suggestion, in poor to marginal conditions,  
faster isn't better. Think of a modem -- under marginal line  
conditions, the modems automatically slowdown to increase  
throughput. And, after all, that's what we need -- throughput, not  
speed.

Honestly, even with excellent fists (anticipation of the rhythm is  
important!), I can copy a novice speed under slow conditions better  
than an extra speed ...

72 es 73 de=20

Marty, KM7W

-----  
Jackson, Tennessee

e-mail: mdwatt@usit.net

<http://www.public.usit.net/mdwatt>

"The Curmudgeon's Corner"

NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq  
~~~~~

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997

From: ptaber@microtest.com

Subject: [18723] Re:Lost Dutchman Mine

Message-ID: <9705018624.AA862492548@microtest.com>

>>At our selected site: The "Lost Dutchman Mine" we ScQRPions had, IMHO,
>>the best QRP TTF to date.

>

>I always thought the Lost Dutchman mine was in Eureka UT. The Duthcman

>was one of my ancestors, [...]

Well, he wouldn't be much of a lost Dutchman if he knew where he was. And if you're his descendant....

;-)
(Just struck by the juxtaposition, I guess.)

>>>==>PStJTT

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [18728] Re:Lost Dutchman Mine
Message-ID: <Pine.SUN.3.90.970501065327.23097C-1000000@vortex>

On Thu, 1 May 1997 ptaber@microtest.com wrote:

>
> >>At our selected site: The "Lost Dutchman Mine" we ScQRPions had, IMHO,
> >>the best QRP TTF to date.
> >
> >I always thought the Lost Dutchman mine was in Eureka UT. The Dutchman
> >was one of my ancestors, [...]
>
> Well, he wouldn't be much of a lost Dutchman if he knew where he was. And if
> you're his descendant....

If it's location was known, would it be lost??

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [18737] Re:Lost Dutchman Mine

Message-ID: <Pine.A41.3.95b.970501083358.24046A-100000@homer26.u.washington.edu>

Well, the Dutchman never was lost...only his mine. He was a gold miner who roamed the Superstition Mountains northeast of Apache Junction, Arizona. The Superstitions were and still are the happy hunting grounds for the Apache Indians. They are a castle-ish looking mesa with craggy cliffs which can be seen from Phoenix on a clear day. The local folklore has it that this mountain area is possessed with Apache spirits who protect their domain of eternal rest with a vengeance. Those who venture into this sacred area do so at their own peril. The locals keep a body count since the days of the Dutchman. Last I recall it was up around 72 deaths. I do recall an instance back in the '60s where two hunters died up there. It had snowed some and one hunter slipped and fell down a cliff breaking his leg. His hunting partner couldn't reach his injured buddy but stayed there at the edge of the cliff. They both froze to death. After they were discovered a helicopter flew in to recover their bodies. Upon returning, one of the crew stepped out of the helicopter and was struck by a rotor blade, killing him instantly. Most of the deaths have occurred to prospectors, so it seems. It's enough to make a believer out of anybody, let me tell you!

There's a stone spire north of the Superstition range which is known as Weaver's Needle. It is said that if one could climb Weaver's Needle then the Lost Dutchman's Goldmine would be within your view. Trouble is, on a clear day you can see for a hundred miles in just about any direction from Weaver's Needle. It's a fascinating place, full of southwest history and folklore. Just the right spot for QRPTTF!!! Way to go SQRPIons (and you all survived too)!

Stephen Lee, AB7HI, Tacoma, WA
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: "James R. Johns" <jrjohns@mitre.org>
Subject: [18718] Re: Mercury Paddles vs Schurr Paddles
Message-ID: <3.0.1.32.19970501083810.00773fcc@mail91.mitre.org>

Ed and Jerry -

I second the comment. I own several Schurr paddles, a Bencher Paddle, a

Vibroplex, a Kent Paddle and several military paddles purchased from the QORP gang at Dayton. I also have a fairly extensive collection of straight keys from J-38s to the Bencher straight key to mini "spy" keys. Best of all, I own a Mercury (my wife purchased it for me as a gift) and if I ever wind up broke, it is the only thing that I will fight tooth and nail to keep. I even have an extra set of "designer" finger tabs in an exotic brushed stone look. I'm not sure if the individual (I can't remember his name right now) is still making them but if you have a chance to buy one it's definitely worth the \$300 to \$400 dollars. As they are custom order, at best you will see one on display at one of the booths at Dayton. (There was a company in the midwest or Rocky Mountain region that made keyers that used to display a couple of Mercury keys, including a gold plated one, at Dayton every year.) 73 and good luck

Jim Johns KA0IQT
jrjohns@mitre.org

At 05:26 PM 4/30/97 -0400, you wrote:

>Hi Jerry... I own several Schurr models (for camping, backpacking, etc.)
>and a Mercury. The Schurrs are fine keys. They are not as good as the Jones
>paddles (Palomar) and nothing I have ever tried is a Mercury. Period.
>72/73

>-----
>Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
>189 Pioneer Trail
>Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX
>-----
>QRP-ARCI #7663 G-QRP #6779 OK-QRP #172 QRP-L #758
>AdvRC #140 NORCAL #1779 NCDXF SEDXC
>
>Life Member: ARRL AMSAT INDEXA QCWA
>-----

>
>INTERESTS: DX QRP BoatAnchors Test Equipment Photography
> CW: 99.9% QRP: 95-100% (Mood swings!)

>~~~~~
>"Think you can, think you can't: either way you're right!" Henry Ford
>~~~~~

>
>
>

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997
From: Ed Tanton <n4xy@bellsouth.net>
Subject: [18727] Re: Mercury Paddles vs Schurr Paddles
Message-ID: <3.0.1.32.19970501095316.009f4760@mail.atl.bellsouth.net>

Steve Nurkiewicz
1385 Abner St.
Port Charlotte, FL 33980
(941) 743-3139

```
>  
>Jerry Henshaw  
>KR5L  
>(See you all at Dayton)  
>
```

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

Life Member: ARRL AMSAT INDEXA QCWA

"Think you can, think you can't: either way you're right!" Henry Ford

Slight change in the NORTEX meeting.

Room change to the large meeting room on the second floor.

You can't miss it. In the last two months since the last meeting, the office cubes (see Dilbert Cartoon) have been moved to the new area that was built out, thus we now have a larger room for the large crowds that we always get. That is if I don't forget to get the key from the guy who has mine.

Also, for those of you who bring things that need to get copied, please arrive early so that I can get it done. I keep missing half the meeting while I'm off at the copy machine. :-)

dit dit es cul

Chuck Adams K5FO CP-60 adams@sgi.com

<http://reality.sgi.com/adams/>

WIMPS: Qs=031 30m=21 17m=5 12m=0 States=18/05/00 DX=03/00/00 QSLs=005

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997

From: "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>

Subject: [18704] Re: R2 kit?

Message-ID: <199705010241.WAA28262@mail.bright.net>

Neil -

I sell the kit, and a "miniR2" kit (see article in Nov '95 QST).

I will have them at Dayton at my table (#514) and at the QRP suite.

73

73 - Bill - N8ET

Kanga US

kanga@mail.bright.net

<http://qrp.cc.nd.edu/kanga/>

419-423-4604

From owner-qrp-1@Lehigh.EDU Thu May 1 18:04:08 1997

From: Brad Mugleston <bmug@gwl.com>

Subject: [18692] RE: Rig Histories

Message-ID: <01BC5568.B6904840@pps-pc10.gwl.com>

If I remember correctly, the Colorado QRP Club publication the LowDown published a review of HB rigs/features/cost etc. in one of their first issues. I believe this has been updated and may be available to CQC members.

de KBØROL, Brad

From owner-qrp-l@Lehigh.EDU Thu May 1 18:04:08 1997

From: dearly@cocc.edu (Daniel K. Early)

Subject: [18689] Re: Suggestions for "Hand-Key"

Message-ID: <v01540b02af8d7eee3fb7@[206.163.24.56]>

I have two WWII Surplus keys one navy and one small airforce. They are excellent. The airforce key is covered with a metal enclosure and the key has the ring underneath the knob which I like better than the ring only straight keys. I'm not sure where one would find such keys these days but they are worth considering. Solid and good quality. Built to last. Dan
WA6IRO